

Comparisons of Job Characteristics

Focus Occupation: [Cartographers and Photogrammetrists \(17-1021\)](#)

Associated Occupation: [Geographers \(19-3092\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Geographers (19-3092)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|--|
| Geography | 3.9 | 24.8 | 19.1 | << Extensive education and/or training may be required |
| English Language | 11.2 | 17.2 | 9.6 | << Extensive education and/or training may be required |
| Sociology and Anthropology | 4.1 | 15.2 | 2.2 | << Extensive education and/or training may be required |
| Computers and Electronics | 8.4 | 15.0 | 14.8 | 0 Current knowledge level may be sufficient |
| History and Archeology | 2.6 | 10.7 | 2.7 | << Extensive education and/or training may be required |
| Philosophy and Theology | 3.2 | 9.3 | 1.1 | << Extensive education and/or training may be required |
| Foreign Language | 2.7 | 7.4 | 1.6 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Geographers (19-3092)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Writing | 9.2 | 15.5 | 11.4 | << Extensive development of skills in this area may be required |
| Reading Comprehension | 10.7 | 15.1 | 12.8 | < A higher skill level may be required |
| Science | 4.5 | 13.8 | 3.6 | << Extensive development of skills in this area may be required |
| Active Learning | 8.7 | 12.3 | 10.2 | < A higher skill level may be required |

| | | | | | |
|--------------------|-----|------|-----|----|--|
| Systems Analysis | 6.5 | 11.6 | 8.6 | << | Extensive development of skills in this area may be required |
| Systems Evaluation | 6.4 | 11.0 | 8.0 | << | Extensive development of skills in this area may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 91 | | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|--|--|
| Focus Occupation: Cartographers and Photogrammetrists (17-1021) Associated Occupation: Geographers (19-3092) | | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | | |
| Oral Expression | 12.4 | 15.7 | 12.0 | << | Extensive improvement in abilities may be required | |
| Written Expression | 9.8 | 15.2 | 12.0 | << | Extensive improvement in abilities may be required | |
| Oral Comprehension | 12.5 | 14.9 | 13.0 | < | Some improvement in abilities may be required | |
| Written Comprehension | 11.0 | 14.4 | 12.3 | < | Some improvement in abilities may be required | |
| Speech Clarity | 10.2 | 13.6 | 8.9 | << | Extensive improvement in abilities may be required | |
| Inductive Reasoning | 10.2 | 13.5 | 11.4 | < | Some improvement in abilities may be required | |
| Near Vision | 11.1 | 13.3 | 12.8 | 0 | Current ability level may be sufficient | |
| Category Flexibility | 9.0 | 12.8 | 9.9 | << | Extensive improvement in abilities may be required | |
| Mathematical Reasoning | 6.3 | 10.6 | 8.1 | << | Extensive improvement in abilities may be required | |
| Number Facility | 6.3 | 10.6 | 7.9 | << | Extensive improvement in abilities may be required | |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 86 |
|---|-------------------------|---|
| Focus Occupation: Cartographers and Photogrammetrists (17-1021) Associated Occupation: Geographers (19-3092) | | |
| Work Activities | Exclusivity of Activity | |
| Analyze spatial data | 87 | |
| Collect geographic or physical data | 81 | |
| Draw maps or charts | 69 | |
| Draw prototypes, plans, or maps to scale | 57 | |
| Interpret aerial photographs | 69 | |

| | |
|---|----|
| Prepare technical reports or related documentation | 22 |
| Read maps | 42 |
| Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks | 58 |
| Use drafting or mechanical drawing techniques | 50 |
| Use geographical information system (GIS) software | 72 |
| Use spreadsheet software | 18 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 64

Focus Occupation: Cartographers and Photogrammetrists (17-1021)
Associated Occupation: Geographers (19-3092)

| Tools and Technologies | Exclusivity |
|--|-------------|
| Audio and visual equipment | 4 |
| Cameras | 2 |
| Computer data input devices | 2 |
| Computer printers | 2 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Data management and query software | 1 |
| Industry specific software | 1 |
| Information exchange software | 1 |
| Land surveying instruments | 19 |
| Measuring and layout tools | 3 |
| Network applications software | 1 |
| Radar and sonar systems and components | 24 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.